CLEAN VERSION OF THE AMENDED CLAIMS

1. (Currently Amended) A method of controlling the coupling of multi-platform reservoir and network simulators comprising:

    synchronizing the advancement through time of the network simulators;

    converting each of the hydrocarbon fluid streams to a fluid model of a controller based on corresponding pseudo-components used in the network simulators;

    obtaining a coupled simulation using the converted hydrocarbon fluid streams; and

    generating a plan based on the coupled simulation, wherein the plan is implemented to improve production of the multi-platform reservoir.

2. (Currently Amended) A controller for coupling multi-platform reservoir and network simulators comprising:

    means for synchronizing the advancement through time of the network simulators;

    means for converting each of the hydrocarbon fluid streams to a fluid model of the controller based on corresponding pseudo-components used in the network simulators;

    means for obtaining a coupled simulation using the converted hydrocarbon fluid streams; and

    means for generating a plan based on the coupled simulation, wherein the plan is implemented to improve production of the multi-platform reservoir.

3. (Currently Amended) The controller of claim 2 additionally comprising means for applying production and injection constraints to the coupled simulation by apportioning the production and injection constraints between the network simulators.

4. (Original) The controller of claim 3 additionally comprising means for balancing reservoir and surface networks.

5. (Canceled)

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